

Title (en)

OPTOELECTRIC DEVICE AND ELECTRONIC DEVICE INCLUDING THE SAME

Title (de)

OPTOELEKTRISCHE VORRICHTUNG UND ELEKTRONISCHE VORRICHTUNG DAMIT

Title (fr)

DISPOSITIF OPTOÉLECTRIQUE ET DISPOSITIF ÉLECTRONIQUE LE COMPRENANT

Publication

EP 4123739 A1 20230125 (EN)

Application

EP 22161018 A 20220309

Priority

KR 20210095155 A 20210720

Abstract (en)

Provided is an image sensor including a sensor array including a plurality of light-sensors respectively including an optoelectronic device, the optoelectronic device including a first electrode, a second electrode spaced apart from the first electrode, and an active layer provided between the first electrode and the second electrode, the active layer including a plurality of quantum dot layers having different energy bands, and a circuit including circuits respectively connected to the plurality of light-sensors and configured to readout an optoelectronic signal generated from each of the plurality of light-sensors.

CPC (source: EP KR US)

H01L 27/1461 (2013.01 - KR); **H01L 27/14621** (2013.01 - US); **H01L 31/022466** (2013.01 - KR); **H01L 31/035218** (2013.01 - KR); **H01L 31/105** (2013.01 - KR); **H04N 23/54** (2023.01 - KR); **H04N 23/57** (2023.01 - KR); **H10K 50/115** (2023.02 - EP); **H10K 50/13** (2023.02 - EP); **B82Y 20/00** (2013.01 - US)

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Third party : Anonymous

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

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DOCDB simple family (application)

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